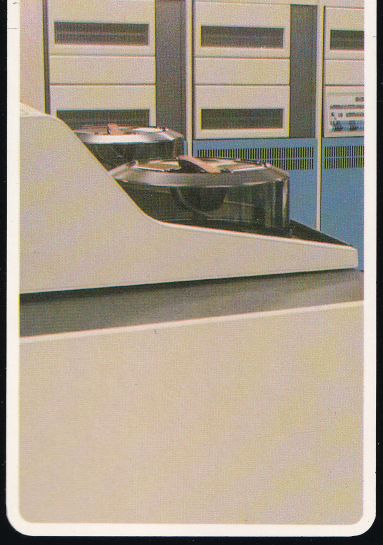
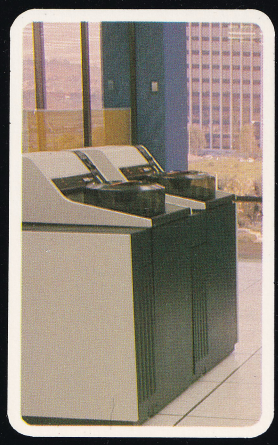
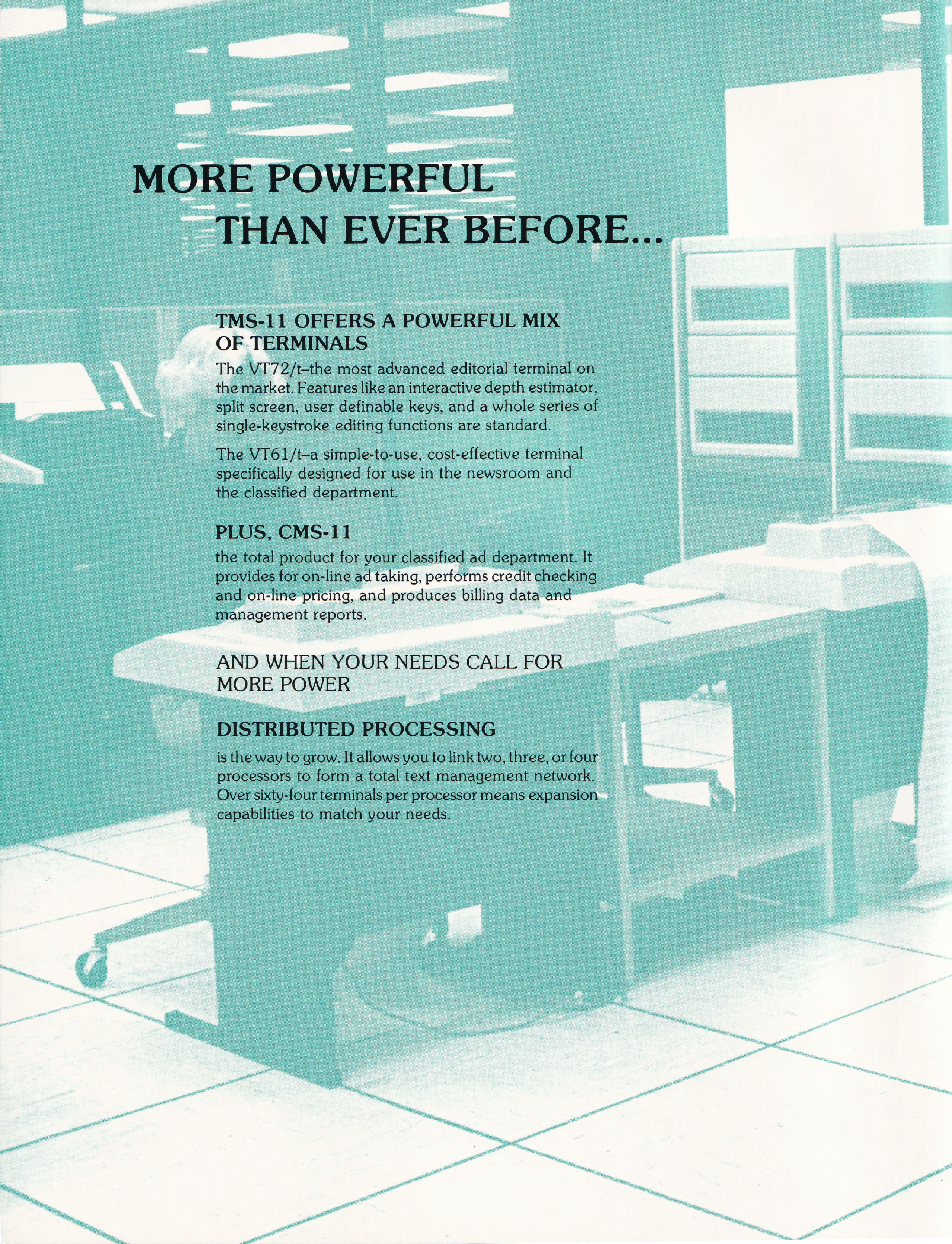
digital





TMS-11
Text Management System



MORE POWERFUL THAN EVER BEFORE...

TMS-11 OFFERS A POWERFUL MIX OF TERMINALS

The VT72/t–the most advanced editorial terminal on the market. Features like an interactive depth estimator, split screen, user definable keys, and a whole series of single-keystroke editing functions are standard.

The VT61/t–a simple-to-use, cost-effective terminal specifically designed for use in the newsroom and the classified department.

PLUS, CMS-11

the total product for your classified ad department. It provides for on-line ad taking, performs credit checking and on-line pricing, and produces billing data and management reports.

AND WHEN YOUR NEEDS CALL FOR MORE POWER

DISTRIBUTED PROCESSING

is the way to grow. It allows you to link two, three, or four processors to form a total text management network. Over sixty-four terminals per processor means expansion capabilities to match your needs.

TEXT MANAGEMENT SYSTEM-11 ...AND THE PEOPLE WHO USE IT

At DIGITAL, we believe that people are important. Some years ago, our Graphics Arts Group was formed by selecting key personnel with a solid background in the Graphic Arts Industry. Plans were formulated. And the necessary staffing effort drew people from graphic arts with a knack for creative problem solving. Our people talked with your people. Plans were modified to better accomodate your needs. Changes were made and remade. On-line tests were conducted. More changes. And TMS-11 was born.

So, with your help, we developed a system that is flexible and powerful enough to meet the demanding needs of the Graphic Arts Industry. TMS-11 was designed for you.

TO THE REPORTERS

TMS-11 is a file cabinet, a desk, a copy boy, a typewriter with a video screen, and an extension to the creative process. More importantly, TMS-11 is easy to use, easy to direct, and it's fast–even when all the input terminals are in use. Our versatile input terminals make it possible for you to do what you do best–write stories.

TO THE EDITORS

TMS-11 is the text management system for editing copy, fitting headlines, sizing stories, assigning work, and copy routing. It's a fast, easy-to-use system.

For monitoring the wires and for organizing your work, TMS-11 is the most powerful editing system available. And it's convenient too. The VT72/t Editorial Terminal sits right on your desk. From directories you request, to story headers you design–TMS-11 is your system–customized and tuned to fit your needs.

TO THE WIRE SERVICES

TMS-11 is the teletype operator, automatic mail clerk and librarian. It takes the stories right off the wire, files them for you, and indexes them by key work, priority cycle, selector code...you name it. With high priority notification, routing is automatic. You tell us who a story should be sent to and when, and we make it happen.

TO THE PRODUCTION MANAGER

TMS-11 handles the phototypesetters with loading control, priority control, set-up control, hard-copy records, and production statistics. TMS-11 coordinates every aspect of the business from editing to phototypesetting.

TO THE CLASSIFIED AD MANAGER

CMS-11 is a high-speed, high-volume system for handling classified ad information. It can handle skip ads, multiple editions, zones, and TF ads. The telephone ad takers simply type in the ads at video display terminals and the system does the pricing, credit checking, error checking, and routing to the various destinations. It can even do the invoicing, accounts receivable, aging, and cash posting.

TO THE BUREAUS

On the road or in your office, TMS-11 is the newspaper. From an on-line terminal or a dial-up coupler, TMS-11 answers the telephone and puts you right in the newsroom.

TO THE DATA PROCESSING MANAGER

The PDP-11/70 on which TMS-11 runs can accomodate a complete range of operating systems, from real-time and time-sharing systems to standard support of higher-level languages, such as COBOL, FORTRAN, BASIC-PLUS II, and others. For business processing, the PDP-11/70 can support up to 32 interactive terminals.

TO ALL THE PEOPLE WHO USE TMS-11

TMS-11 is a multi-user system that can be tailored to fit your newspaper. You can have a single-processor system with up to sixty-four users. Or you can have a system with up to four on-line processors, working together, sharing the load. That's over 250 people. And TMS-11 can bring them together to get the job done.

A SYSTEM FOR ALL USERS, TMS-11 FEATURES:

ORGANIZATIONAL SIMPLICITY

The system software is organized to work for you and with you. You can specify the organizational structure of the electronic desks, file cabinets, and in-baskets, so that TMS-11 works the way you work. And whatever organization you select, security is built in. Copy flow is as automatic or as manual as you need...to people, to line printers, to the composing room. And that's all accomplished with simple, single-keystroke commands.

DIRECTORIES FOR INFORMATION AND STORY MANAGEMENT

Directories can be organized by department, or contain everything stored in the system, showing the information you want with text abstracts of any size. Through the use of the customized story header, you display directories by size, keyword, author, edition, desk...any combination you choose.

For story management, you can display all page-one stories that have not been typeset, or display any new stories on the oil crisis. Define the fields in your story header and the system will provide a display of all the existing stories that match your requests.

SUPER FAST COPY SIZING

From a 10,000 character per second depth estimator, to exact copy sizing. From a dynamic estimator built into the VT72/t editing terminal, to precise copy sizing by the hyphenation and justification program. TMS-11 does it all with convenient, accurate, and interactive copy sizing for both headlines and body copy.

The Interactive Sizer

The size of a specific story may be obtained through an interactive sizing estimator that is customized to fit your needs. The size of the story, in both inches and points, is displayed in the users desk directory, or may be requested when the story is brought to the screen. The sizer is truly interactive. Results are typically displayed in one or two seconds for news stories.

The interactive sizer permits you to tailor the size of a story to fit the space you have to work with. A story might be 5 inches deep and currently marked up in double column format. Without changing any story markup, the size can be requested single column, or in single column 10 point, or in one and one-half columns 10 on 13. Any variation can be used, time after time, until the desired result is achieved. And each size request is typically serviced in one second or less without changing internal story markup.

Copy Sizing Within The Display Terminal

The software that runs within the VT72/t terminal provides a dynamic estimate of the size of a story as it is being edited. By simply pressing the STAT key, an estimate of the size of the story contained in the terminal's memory is displayed. Or if you need an estimate on some part of a story–a sentence, a paragraph, or some combination of them–that too is a simple, quick operation. Simply define the block of text to be sized, by using the appropriate block-definition key, and then press the STAT key. Making a copy change and again pressing those keys results in an updated display of the current size estimate–instantly.

The sizing function is totally independent of the host computer.

The estimator normally assumes the most common newspaper style as defined by the newsroom management. However, other styles can be implemented by using a terminal control function. This versatility permits each department to customize individual terminals for a particular style.

Exact Copy Sizing

The Hyphenation and Justification program produces an exact measure of the depth of a story. The result is entered in the directory and also displayed on the screen (in lines, points, and characters) when the story is brought back to the terminal. Copy may be displayed for editing, showing the actual H & J'ed line endings and computer hyphenations or displayed in non-H & J'ed format. Justified files may be edited and again sent to H & J–there is no limit to the number of passes allowed.

BUILT-IN BACKUP

Backup, for both hardware and software, is inherent in the TMS-11 system design. A typical configuration includes a second, totally redundant system for backup purposes. But that system does not stand idle. We recommend ways of using it, like class ad and/or business operations. And if you ever need that second system, it's on-line, ready to pick up so that no edition is missed.

Backup for individual pieces of equipment is built into the recommended system configuration. For instance, the input terminals and phototypesetters can be switched between systems. The line printers are configured so that no switching is necessary. All other major peripheral devices (i.e., magtape and disk controls and drives) are duplicated or "dual ported" to provide maximum protection in case of a component failure. Wire service lines may be interfaced to both systems providing redundant collection and assuring data capture should one of the systems, or a system component fail.

Text files on a TMS-11 system may be backed up in several ways. A magtape fail-safe program automatically selects the appropriate files, per your specifications, to be written redundantly. You may choose to backup all files from a particular terminal, files queued to a phototypesetter, all files worked on at a given time, etc.

Backup of selected files can also be achieved by using the high-speed computer link between two systems. Each user can cause all story files or individual files to be written redundantly on the backup system, either automatically or manually. Or, with dual-disk recording, files can be simultaneously written on two separate disks. There are many different possibilities. We provide you with the flexibility to select what is best for your operation.

The classified ad data base is protected on a dedicated disk pack, thereby simplifying class ad data management, and providing backup and recapture of up-to-date status should a data integrity problem occur.

Hardware and software also provide an orderly shut down in case of a power failure or other interruption in the system. Tasks that abort for whatever reason do not "hang" the system. Rather that task is restarted after proper analysis, and processing continues normally.

Our hardware is among the most reliable in the world. That keeps downtime to a minimum. And in addition to our built-in backup scheme, we provide such features as error detection, remote problem diagnosis, and interactive peripheral diagnosis, so that if you do have a failure (either hardware or software), it can be analyzed and rectified quickly.

CLASSIFIED ADVERTISING WITH TMS-11 FLEXIBILITY

Classified Advertising Department operations are completely flexible when run on the TMS-11 system. From single-processor, OCR-fed systems, to dual-processor, redundant data base systems that can support over one hundred ad takers with terminals, TMS-11 has the solution you are looking for.

Classified ads can be input from paper tape, OCR, or interactive terminal. Input terminals are normally used for live, on-line ad entry to CMS-11. Ad takers simply fill in the blanks of an electronic ad form, which contains the pertinent information relative to the customer and the ad, including the ad text. The CMS-11 system then verifies the forms information, performs a credit check, sizes the ad precisely, and informs the ad taker of the price for the ad. All of this occurs with the customer still on the telephone.

After ads are input, hyphenated and justified, they are transferred to the classified master file, which is a separate disk for security and backup. The sort and dump procedures are high-speed and interactive with other system tasks. Sorting styles are customizable by classification.

Classified ads may be output to one or more photocomposers front-to-back (by classification), or vice versa. The system handles up to 32 editions.

That's flexibility for the Classified Advertising Department on the TMS-11 system. From ad insertion to cash posting or bad debt write-off...TMS programs can handle the job.

CLASSIFIED AD OPERATIONS

Like stories, classified ads can follow many routes through the system, depending on the needs of the Classified Advertising Department. All ads may go to a copy checker, while credit risk ads and specific dollar-amount ads can be routed automatically to the credit manager.

Stored ads can be retrieved and edited at the terminal. Commands to insert, retrieve, manually kill, and list ad reports are also issued at the terminal. Other commands produce line printer copy, H & J copy, ad directtories, or galleys on the photocomposition machine.

Each ad is assigned an ad taker ID, classification number, customer account or invoice number, and other relevant accounting and scheduling information. Each kind of information becomes the subject of a separate report that is very useful in handling customer requests. Production, accounting, and scheduling reports are essential for the composing room and those concerned with classified ad billing.

DIGITAL offers both billing spooler and/or complete transient classified billing packages, depending upon the needs of the newspaper. With the billing spooler, complete billing information may be passed to the customer's billing system via industry compatible magnetic tape. With DIGITAL Classified Billing package, the billing spooler data is fed into a complete transient accounts receivable system, which includes billing summaries, aging reports, followup notices, cash position, etc.

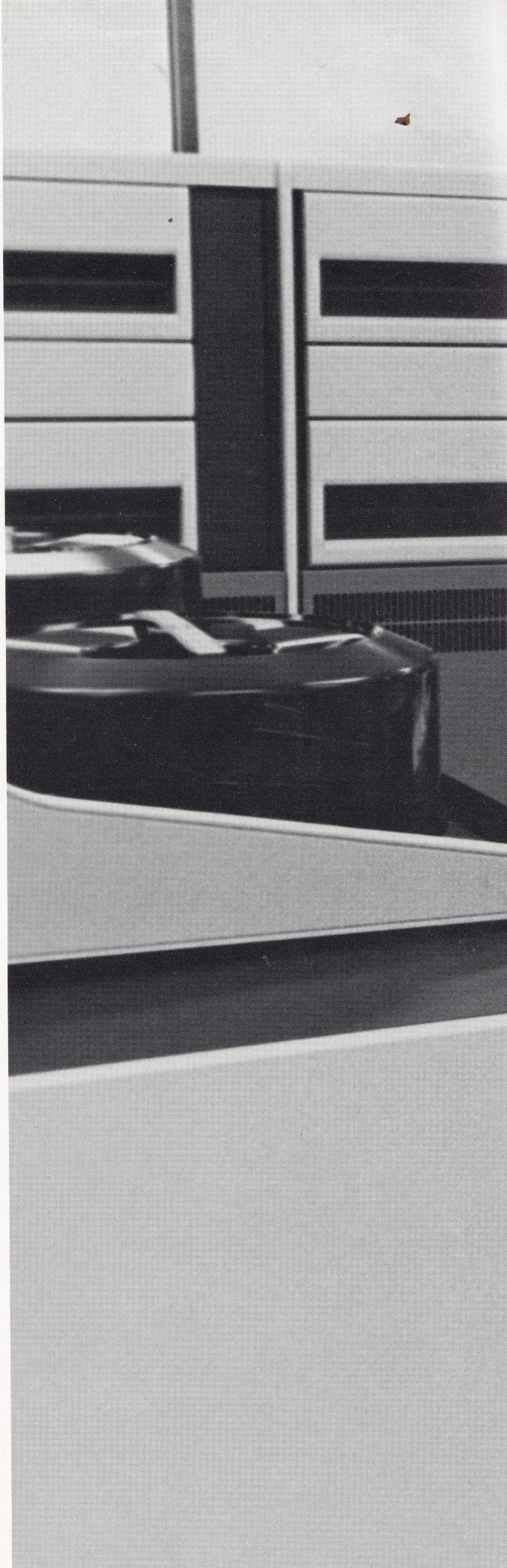
With the standard and customizable features of TMS-11, our system is flexible enough to adapt to your needs and help get your paper out on time.

HIGH PRIORITY NOTIFICATION

When an urgent story breaks, either by wire or reporter-on-the-scene, TMS-11 is at your service with High Priority Notification. For wire service stories, High Priority Notification is triggered by input selector code; for the newsroom, it is triggered by sending a message to an editors desk.

High Priority Notification is used by reporters to alert an editor that a "hot" story needs immediate attention. That is accomplished by sending a message to the editor's VT72/t terminal, thereby, causing the receiving terminal to beep. The beeping alerts the editor working at the VT72/t that an important message awaits. Pressing the STAT key displays the message and turns the beeping off.

High Priority Messages may contain up to 62 characters and can be generated from either a VT61/t or a VT72/t terminal. They can be sent at any time without interrupting other communications with the host computer.



INPUT FROM THE WIRE SERVICES

TMS-11 provides the wire editor with a wide range of flexibility in designing and maintaining wire service interaction with the terminal users. As with other TMS-11 features, wire service offers simplicity, flexibility and maintainability.

From the moment a wire story moves over the line, TMS-11 is working for you. The wire header is read. The copy header is filled in the way you designed it. The copy is placed in an appropriate electronic desk based on the contents of the header.

For directories, the wire editor can key on the electronic storage desks, which have been filled with wire copy as he/she directed. Or the editor may command the full power of the TMS-11 story header and directory language and build special directory displays based on interrelated data from each story.

TMS-11 handles all ANPA/RI standard transmissions, not only news and syndicated copy, but tabular material too (single and double column). And if required, TMS-11 handles the financial wire–from stripping, to take combinations, to on-line photocomposition.

Wire Story Files

TMS-11 permits a designated group of wire stories to be merged with little effort, and a new name can be assigned to the new multi-story file. There are two methods of merging files. Multiple stories can be merged as they are transmitted to TMS-11, and stories can be merged by system command from an editing terminal, which identifies the appropriate stories. Stories received through the wire service can be deleted manually at the terminal or at the console.

Additionally, the wire service option can use High Priority Notification to notify the wire editor, working at a VT72/t terminal, that a FLASH or BULLETIN has arrived. High Priority Notification is a method of causing the VT72/t terminal to beep. For the wire service option, it is triggered by a user-designated, input selector code. The beeping tone is a notification to the terminal user that an urgent story has just come in and requires immediate attention.

The wire editor has complete control over file directories and file maintenance. TMS-11 handles story deletions from the high- and low-speed wires via time deletion, story number overwrite, or selective commands invoked by the user based on publication date, edition, etc.

AUTOMATIC HOUSEKEEPING

Housekeeping, that tedious task of clearing your data base of those extra files created while producing the last edition of your newspaper. In TMS-11 it's automated. By time period for wire copy, by edition or publication date for local copy. You specify the constraints and commands to be used by each department–TMS-11 is customized to make it happen.

For classified ad operation, both ad dormancy and expiration occur automatically when you perform an update to generate your billing information. Each classification can be tailored to your needs.

PROCESSING POWER AND SIMPLE, FLEXIBLE OPERATION

TMS-11 is designed to work for you. You the newspaper. You the manager. You the terminal user. TMS-11 has the power to service many people and many operations simultaneously. TMS-11 is simple to operate, yet flexible enough to meet your most demanding needs.

THE BEST TERMINAL FOR THE TASK AT HAND

VT61/t – A POWERFUL TOOL FOR REPORTERS

In keeping with the philosophy that it's economical to choose the best terminal for a particular job, the inexpensively priced VT61/t is designed for reporters to enter stories into the TMS-11 system.

At the VT61/t a reporter can insert text, make corrections, and backtrack with the help of a flashing cursor that indicates typing position. The typing position can be changed up, down, left, or right; or to the end of viewed text; or to the beginning of viewed text. Blocks of text can be repositioned. Characters, words, phrases, sentences, or paragraphs can be deleted or inserted.

A full word wraparound feature eliminates the need to manually end each line with a carriage return.

When a story is finished, it is sent to the system for storage, and if they apply, the computer effects default routing procedures. The system default path can be modified at any time by any authorized staff member.

REPORTING FEATURES OF THE VT61/t

These are some of the more important features that simplify the reporter's writing effort:

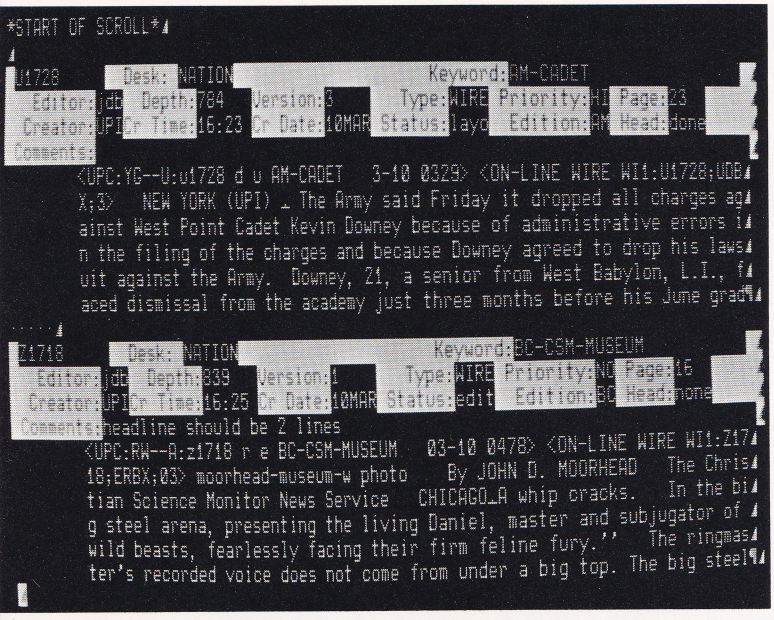
- Editing flexibility–19 special keys designed and labeled for newsroom operation.
- Flashing cursor for quick, easy location of typing position.
- Full word wraparound, eliminating the need for carriage returns. When the typing position reaches the end of a line, the cursor moves automatically to the beginning of the next line.
- Typewriter-like keyboard for quick familiarization.
- Forms mode capability for repetitive data entry, i.e., box scores and weather reports.

THE VT72/t – A MANAGEMENT TOOL FOR EDITORS

Ideally, the managing editor should be in several places at once, an impossibility but almost a reality with the new VT72/t terminal. Equipped with its own microprocessor, the fast-reacting terminal allows the managing editor to keep in touch with all departments of the newspaper and to keep track of all stories under his or her control.

With the VT72/t, an editor can route stories and instructions to any member of the staff, allot work among various desks and queues, edit stories, and view any story in the system to which access is provided.

From directory displays on the VT72/t terminal, an editor can review story progress or even page progress throughout the day. Directories show complete story headers (e.g., slug, author, priority, edition, head status, depth, page, etc.) along with the requested text abstract for each story. The story header is customized to fit the needs of the newspaper.



Directories may be formulated based on editorial requests for stories that meet either one or several conditions defined in the story headers. Thus an editor might request a directory listing of all stories for the first edition, section A, with a depth greater than 10 inches, which have not yet been typeset. The resulting display provides complete, up-to-the-minute, status of the edition, with respect to both the editorial and production departments.

Using pan scrolling–whereby the screen image moves up or down in such microscopically small steps that motion appears uniform–the managing editor can scan any story in the system. Speed of motion can be regulated for convenience. Using the versatile editing capabilities of the VT72/t, any story can be easily and accurately modified.

The VT72/t is a superior asset to the editor in the performance of a wide range of jobs:

- Assign priority to files so that "hot stories" are handled first.
- Set aside certain stories for later consideration; edit and send others to production; route stories to reporters with notes and rewrite instructions; and route other stories to staff editors.
- Display justified or unjustified proof files and request phototypeset galleys on certain stories.
- Rename files and delete those that are obsolete.
- Combine files through simple directory commands.
- Request directories with and without header information and story abstracts.
- Obtain estimates of copy depth and headline fit or adjust either to fit a certain space.

digital VT72/1

THE VT72/t – A POWERFUL TEXT EDITOR

The VT72/t is the most powerful text editing terminal on the market. With its large-character display, non-glare screen, and easy-to-use keyboard, the VT72/t enhances personnel efficiency, even after a long day (or night) on the job. Like most other features of TMS-11, the VT72/t can be tailored to individual needs.

Headline writing and copy sizing is fast, simple, and convenient with the interactive VT72/t terminal. A depth estimate for a paragraph or a whole story can be obtained almost instantly with a single keystroke. Or an exact fit can be obtained in a certain style, with line breaks and line remainders displayed.

There are 16 User Definable Keys that may each have two unique definitions. That's 32 multiple-keystroke commands and/or text phrases that can be reduced to a single keystroke. Such things as sending a story to the phototypesetter and the line printer at the same time; returning the story you are editing to the data base and bringing the next one on the "desk" to your terminal; and an unlimited number of other possibilities. You can define them any way you want, save and recall them and change them as often as you wish. Hence, the VT72/t can be adapted to changing demands.

Split screen is another **standard feature** of the VT72/t. With a single keystroke, the screen is functionally divided into two parts. Each half of the screen is independent of the other, permitting two stories to be displayed simultaneously for comparison. Or one could work from a set of notes displayed on one screen half while typing copy in the other.

What might have taken hours of cutting and pasting can now be accomplished almost instantly with a VT72/t Video Display Terminal. Other copy editing features offered by the VT72/t include:

- Nine text display modes: normal, boldface, underline, blank, reverse video, underline and bold, reverse video and underline, reverse video and bold, underline/reverse video and bold. (You can specify the display mode for bold type, story headers, and for protected, forms mode text entry.)
- The speed of the cursor can be controlled to allow for editing and review at a pace that is comfortable to the user.
- Deleted copy can be restored immediately by pressing the UNDEL key, which returns characters, words,or any size text block to the screen.
- Transposed characters can be corrected with a single keystroke.
- One key is used to change capital letters to lower case or vice versa. This same key is used to capitalize for emphasis or correct capitalization mistakes.
- Pressing two keys enables the user to "step through" a story page by page.

And the VT72/t incorporates features that let your copy editors:

- Insert, delete, or move characters, words, sentences, lines, paragraphs, or blocks of text.
- Overstrike characters or words.
- Search for and replace a particular character, word, or group of words that recur within a story.
- Move or repeat lines, paragraphs, blocks of text, or commands anywhere within a story.
- Embed messages, instructions, or notes within the story for future action or review. This text is automatically removed from the story during H & J so there's no need to worry about internal messages appearing in print.
- Assign typeface, point size, vertical spacing, and column width with single-letter commands.
- Automatically route copy to any location.

TMS-11 DIDN'T JUST HAPPEN

It has evolved over the past few years, and its design is based on input from people like you. People who know the Graphic Arts Business. TMS-11 is a solid system. You can see both single-processor and multi-processor systems in operation producing major metropolitan newspapers all around the world.

And when you buy a TMS-11 system from DIGITAL, you get something extra:

- Dependable, flexible software that meets the needs of almost any newspaper.
- Hardware renowned for its reliability.
- Terminals that fit the job and that can be adapted to new requirements as they occur.
- Support from a group of newspaper specialists who can put DIGITAL's resources to work for you.
- A system that can start out small and grow and adapt to fit the needs of a changing industry.
- A system built around the powerful PDP-11/70– a computer with tremendous expansion capability.
- A total system for the newsroom, classified advertising, production, and business applications.

But just as important, you get Digital Equipment Corporation–the world's leading manufacturer of minicomputers and computer systems. DIGITAL can support all of your needs: software, hardware, service, and especially research and development for future applications.

We'll be here tomorrow.

digital

GRAPHIC ARTS GROUP

DIGITAL EQUIPMENT CORPORATION, MERRIMACK, NEW HAMPSHIRE 03054

DIGITAL EQUIPMENT CORPORATION, Corporate Headquarters: Maynard, Massachusetts 01754, Telephone (617) 897-5111—SALES AND SERVICE OFFICES: UNITED STATES—ALABAMA, Birmingham and Huntsville • ARIZONA, Phoenix and Tucson • CALIFORNIA, Los Angeles, Oakland, Sacramento, San Diego, San Francisco, Santa Ana, Santa Barbara, Santa Clara, Sunnyvale • COLORADO, Denver • CONNECTICUT, Fairfield and Meriden • DISTRICT OF COLUMBIA, Washington, D.C. (Lanham, MD) • FLORIDA, Miami, Orlando, Tampa • GEORGIA, Atlanta • HAWAII, Honolulu • ILLINOIS, Chicago, Peoria, Rolling Meadows • INDIANA, Indianapolis • IOWA, Bettendorf • KENTUCKY, Louisville • LOUISIANA, New Orleans • MASSACHUSETTS, Springfield and Waltham • MICHIGAN, Detroit • MINNESOTA, Minneapolis • MISSOURI, Kansas City and St. Louis • NEBRASKA, Omaha • NEW HAMPSHIRE, Manchester • NEW JERSEY, Cherry Hill, Fairfield, Princeton, Somerset • NEW MEXICO, Albuquerque • NEW YORK, Albany, Buffalo, Long Island, Manhattan, Rochester, Syracuse • NORTH CAROLINA, Charlotte and Durham/Chapel Hill • OHIO, Cincinnati, Cleveland, Columbus, Dayton • OKLAHOMA, Tulsa • OREGON, Portland • PENNSYLVANIA, Harrisburg, Philadelphia (Blue Bell), Pittsburgh • RHODE ISLAND, Providence • SOUTH CAROLINA, Columbia • TENNESSEE, Knoxville and Nashville • TEXAS, Austin, Dallas, El Paso, Houston • UTAH, Salt Lake City • VIRGINIA, Richmond • WASHINGTON, Seattle • WEST VIRGINIA, Charleston • WISCONSIN, Milwaukee • INTERNATIONAL—ARGENTINA, Buenos Aires • AUSTRALIA, Adelaide, Brisbane, Canberra, Melbourne, Perth, Sydney • AUSTRIA, Vienna • BELGIUM, Brussels • BOLIVIA, La Paz • BRAZIL, Rio de Janeiro and Sao Paulo • CANADA, Calgary, Edmonton, Halifax, London, Montreal, Ottawa, Toronto, Vancouver, Winnipeg • CHILE, Santiago • DENMARK, Copenhagen • EGYPT (A.R.E.), Cairo • FINLAND, Espoo • FRANCE, Lyon, Paris, Puteaux • HONG KONG • INDIA, Bombay • INDONESIA, Djakarta • IRAN, Tehran • IRELAND, Dublin • ISRAEL, Tel Aviv • ITALY, Milan, Rome, Turin • JAPAN, Osaka and Tokyo • MALAYSIA, Kuala Lumpur • MEXICO, Mexico City • NETHERLANDS, Amstelveen, Rijswijk, Utrecht • NEW ZEALAND, Auckland and Christchurch • NORTHERN IRELAND, Belfast • NORWAY, Oslo • PUERTO RICO, San Juan • SINGAPORE • SOUTH KOREA, Seoul • SPAIN, Madrid • SWEDEN, Gothenburg and Stockholm • SWITZERLAND, Geneva and Zurich • TAIWAN, Taipei • UNITED KINGDOM, Birmingham, Bristol, Ealing, Epsom, Edinburgh, Leeds, Leicester, London, Manchester, Reading • VENEZUELA, Caracas • WEST GERMANY, Berlin, Cologne, Frankfurt, Hamburg, Hannover, Munich, Nurnberg, Stuttgart • YUGOSLAVIA, Belgrade and Ljubljana •

Printed in U.S.A. EA 05333 23 RE 5/78 BCMKTD